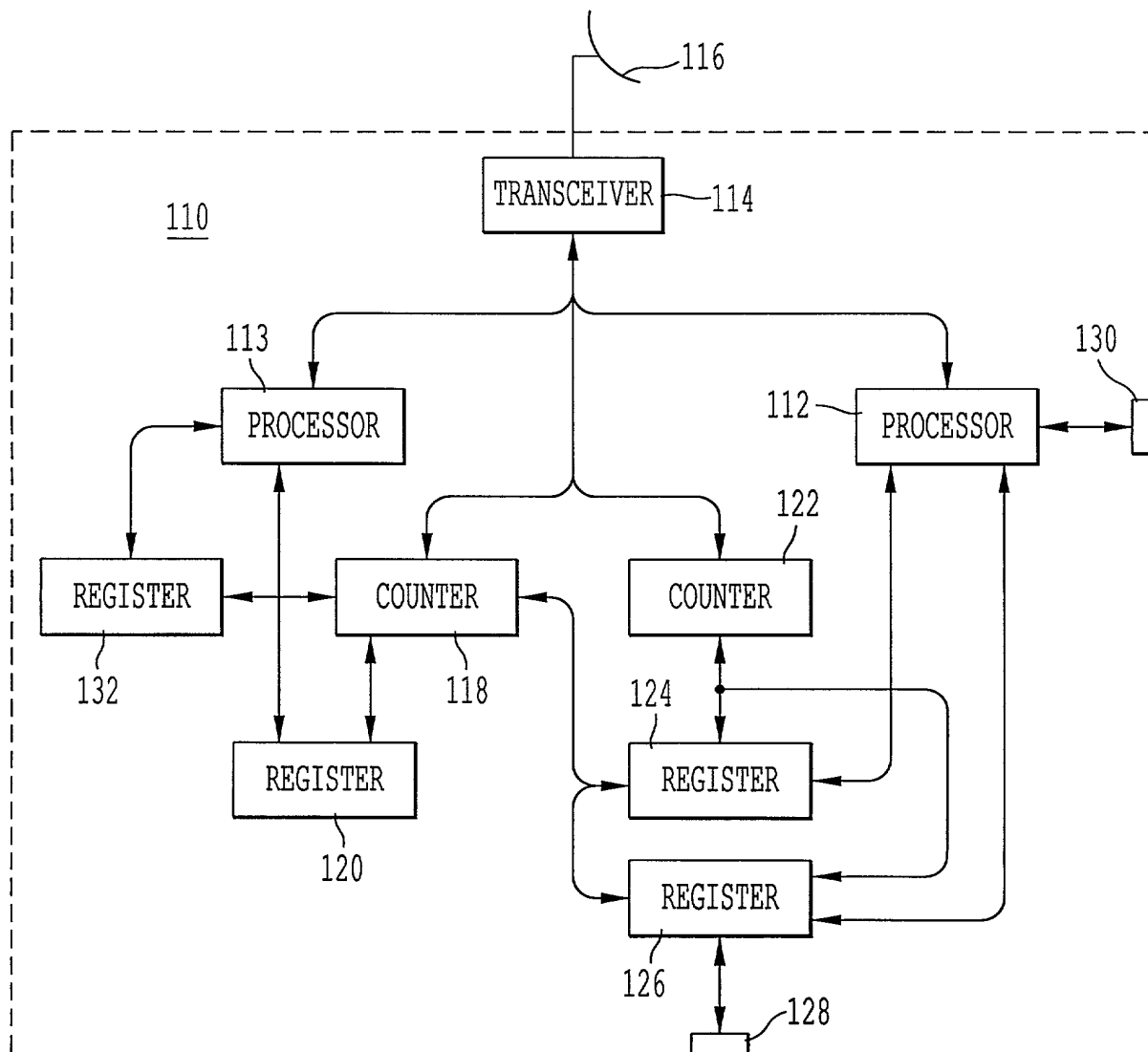
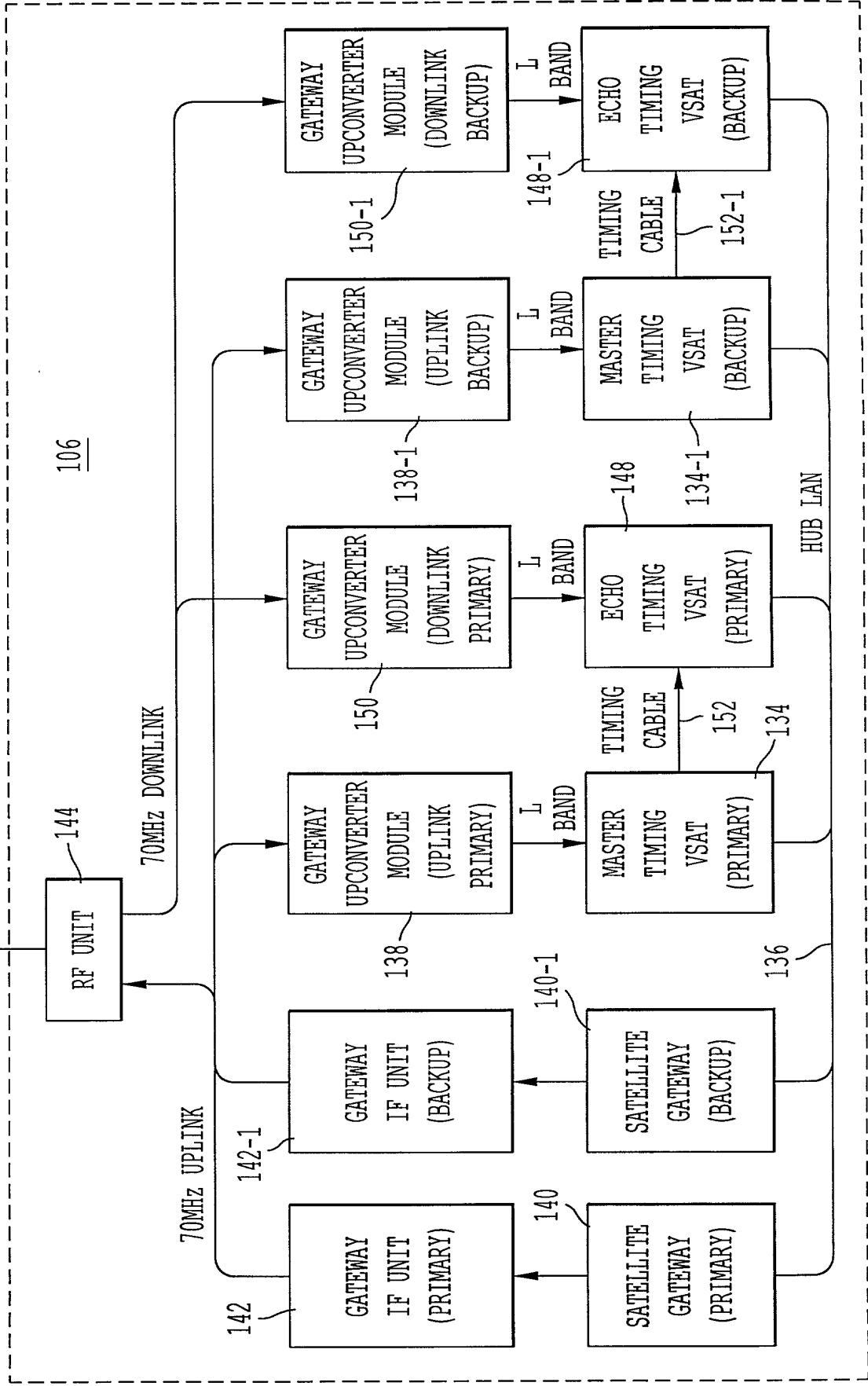


**FIG. 1**



**FIG. 2**

FIG. 3



106

RF UNIT  
144

70MHz DOWNLINK

70MHz UPLINK

142

142-1

GATEWAY  
IF UNIT  
(PRIMARY)

GATEWAY  
IF UNIT  
(BACKUP)

GATEWAY  
UPCONVERTER  
MODULE  
(UPLINK  
PRIMARY)

138

GATEWAY  
UPCONVERTER  
MODULE  
(UPLINK  
PRIMARY)

150

GATEWAY  
UPCONVERTER  
MODULE  
(DOWNLINK  
PRIMARY)

138-1

GATEWAY  
UPCONVERTER  
MODULE  
(UPLINK  
BACKUP)

150-1

GATEWAY  
UPCONVERTER  
MODULE  
(DOWNLINK  
BACKUP)

140

SATELLITE  
GATEWAY  
(PRIMARY)

140-1

SATELLITE  
GATEWAY  
(BACKUP)

136

MASTER  
TIMING  
VSAT  
(PRIMARY)

152

ECHO  
TIMING  
VSAT  
(PRIMARY)

134

MASTER  
TIMING  
VSAT  
(BACKUP)

134-1

ECHO  
TIMING  
VSAT  
(BACKUP)

148-1

148

TIMING  
CABLE

152-1

136

134

152

134

136

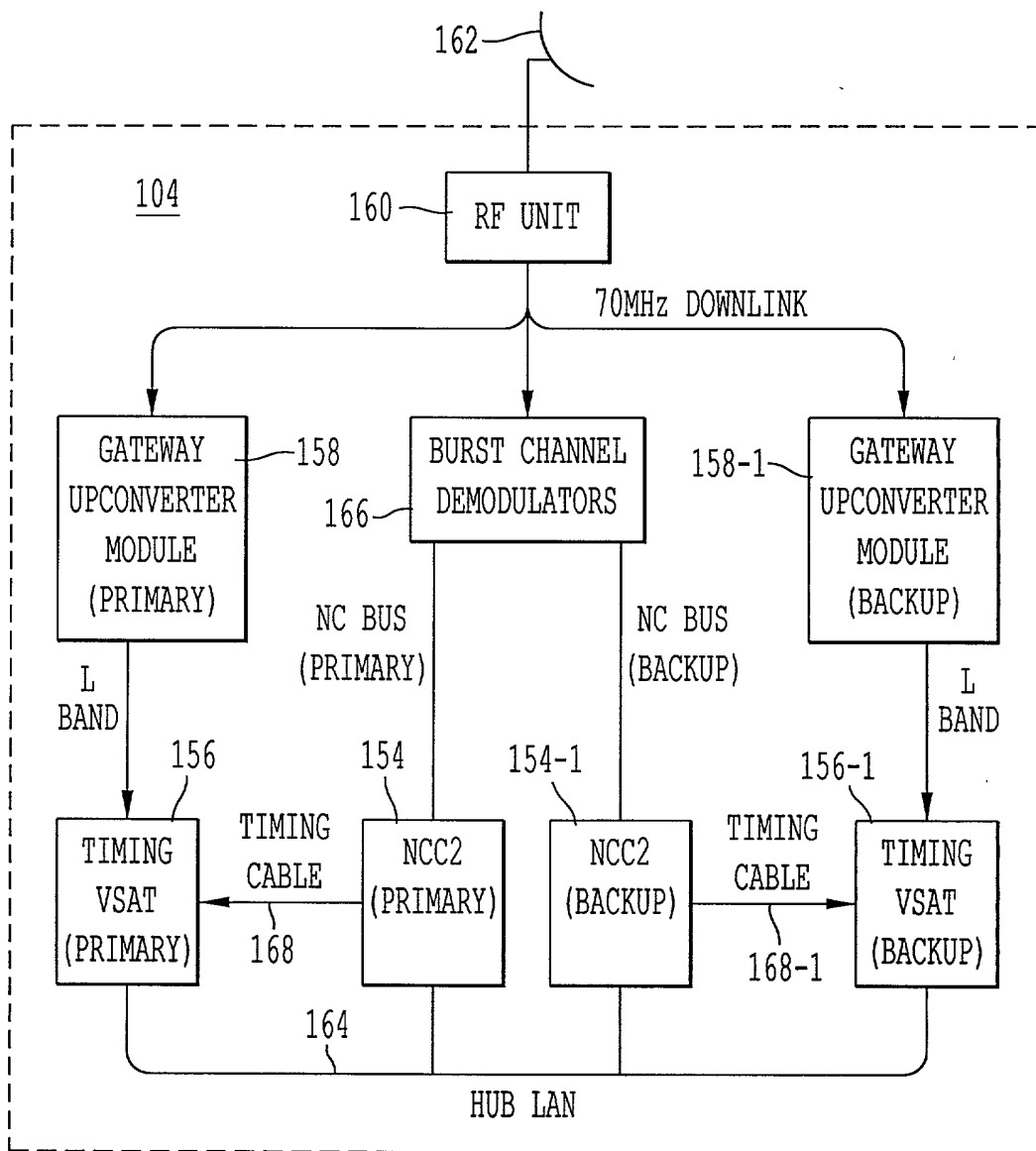
134

136

134

136

HUB LAN



**FIG. 4**